**Homework 90** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
**Convert Between Volume and SA of Prisms** Period\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SA (Regular Pyramid) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume (Regular Pyramid) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| 1) Find the volume of a cylinder with a height of 10in and a radius of 4in.  10 in  4 in | 2) Find the full surface area of the cylinder in #1. Leave you answer in terms of . |
| 3) Find the volume of the solid. Round your answer to two decimal places. | 4) Find the surface area of the regular pyramid. Round your answer to two decimal places. |
| 5) Find the value of x.    7) Use the dimension below.     1. Find the surface area. 2. Find the volume. | 6) Find the value of x in the pyramid below.  http://wdict.net/img/pyramid+(geometry).jpg  8m  x  5m  a) Solve for x.  b) Find Surface area.  8) Use the dimension below.  *SA= 144m2*     1. Solve for x. 2. Find the volume.   x |
| 9) Find the volume and surface area of the cylinder below. | 10) Use the dimension below. *V= 147m3*    x   1. Solve for x. 2. Find the surface area. |